

ABSTRACT OF THE DISCLOSURE

A combustion control system for a spark ignition internal combustion engine, is configured to detect engine operating conditions, predict, based on the detected engine operating conditions, an autoignition timing of an end gas and an amount of heat released due to autoignition of the end gas, calculate a knock
5 intensity from the autoignition timing and the amount of heat released due to the autoignition, and control combustion in the engine in such a manner that the knock intensity is lower than or equal to a specified intensity limit.